

## **Makris, Susan**

---

**From:** Makris, Susan  
**Sent:** Thursday, February 20, 2014 7:13 PM  
**To:** Johnson, Paula D - (pauladj)  
**Subject:** RE: TCE study methods  
**Attachments:** Johnson et al 2003 methods for reducing bias 2-19-14.docx

Hi Paula, I am attaching a revised draft of the study methods, which incorporates your comments on the previous draft, as well as clarifying a few other issues, again based upon our discussions. Please review this document and clearly confirm your agreement with the content, or alternatively provide recommendations for revision. Many thanks, Sue

Susan Makris  
USEPA/ORD/NCEA (8623P)  
1200 Pennsylvania Ave., NW  
Washington, DC 20460  
Office: 703-347-8522  
Fax: 703-347-8692  
[makris.susan@epa.gov](mailto:makris.susan@epa.gov)

Courier address:  
Two Potomac Yard (North Building)  
2733 S. Crystal Dr. (Rm N7712)  
Arlington, VA 22202

**From:** Johnson, Paula D - (pauladj) [<mailto:pauladj@email.arizona.edu>]  
**Sent:** Tuesday, February 11, 2014 3:15 PM  
**To:** Makris, Susan  
**Subject:** RE: TCE study methods

Hi Susan,

Looks appropriate. The only statement that needs 'tweaking' is the following:  
"On some occasions, females were mated, but the stock solutions of TCE used in formulating the drinking water had been depleted; in that case, those dams would be assigned to the control group (this was a deviation from the standard random assignment procedure)."

This statement is close, but I can only remember this happening twice (2) over the entire length of the study.  
Good luck, Paula

Paula D. Johnson, DVM, MS  
Surgical Support, University Animal Care  
Consulting Veterinarian, Southern Arizona VA Health Care System (Tucson VAMC)  
Executive Director, Southwest Association for Education in Biomedical Research  
The University of Arizona, Arizona Health Sciences Center  
1501 N. Campbell Ave., PO Box 245092 Tucson, AZ 85724-5092  
Office 520-621-3483 Fax: 520-626-4079

**From:** Makris, Susan [<mailto:Makris.Susan@epa.gov>]  
**Sent:** Monday, February 10, 2014 4:39 PM  
**To:** Johnson, Paula D - (pauladj)  
**Subject:** TCE study methods

Hi Paula, Thank you for spending your time today in discussing details of the randomized assignment of dams to study and the "blind" assessment of fetuses for cardiac exam in the various studies that were used as the basis of the data

published in the Johnson et al. (2003) paper in EHP. I have attached a final draft description of the procedures that reflects our discussions. Note that it includes corrected exposure years for the 250 and 2.5 ppb TCE groups (you had indicated that you believe the exposure dates published in the 2005 Errata in EHP should be 6 Jun **1994** – 13 Jul 1995 for the 2.5 ppb group, and 5 Jul **1994** – 21 Jul 1995 for the 250 ppb group).

Please send me an e-mail confirming that you received this message and the information in the attached file and are in agreement with the content. And certainly, if you have any additions or corrections, let me know. Best regards! Sue

Susan Makris  
USEPA/ORD/NCEA (8623P)  
1200 Pennsylvania Ave., NW  
Washington, DC 20460  
[makris.susan@epa.gov](mailto:makris.susan@epa.gov)  
703-347-8522